Let $X$ be a Banach space over $\mathbb{C}$ or $\mathbb{R}$, and let $B(X)$ be the Banach algebra of all continuous linear operators on $X$. The numerical index of $X$, $n(X)$, is the infimum of all the numerical radii of operators in the unit sphere of $B(X)$. The main result of the article (Theorem 2.1) states that for every $p$, $1 \leq p < \infty$,

$$n(l_p(X)) = \lim_{m} n(l_m^p(X)).$$

The result is an extension of the first-named author in [Linear Algebra Appl. 403 (2005), 86–96; MR2140274 (2006f:47005)].

Reviewed by Jor-Ting Chan

References

Note: This list reflects references listed in the original paper as accurately as possible with no attempt to correct errors.

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